The Edison Institute Dearborn, Michigan

> April 12 1937

Mr Charles L Clarke 109 Oakleigh Road Newton. Massachusetts

Dear Mr Clarke:

We have started the placing of old steam engines and dynamos in our Museum to show the early application of engine-driven dynamos, such as a Wright engine belted to a countershaft and from there to a Brush arc light dynamo; an Armington and Sims engine belted to two #20 Edison dynamos and then some direct connected sets and through the general run of such machines.

The thought came to me that we should have a duplicate of the first Edison plant on land, the one at Hinds-Ketchum and Company, which we understand was an "A" dynamo built at Menlo Park and driven by a New York Safety Steam Power engine. Can you advise us what size engine (bore and stroke) this engine was, the speed of it and whether it was vertical or horizontal.

Any information you can furnish will be appreciated.

Very truly yours,

JAS W BISHOP

JWB ES

109 Opkleigh Road, Newton, Mass, April 29, 1937.

Mr. Jas, W. Bishop, The Edison Institute, Dearborn, Michigan,

Dear Mr. Bishop;

Your inquiry, April 12th, relative to the Edison lighting plant at the printing establishment of Hinds, Ketcham & Co., was duly received, Your query has required some search and thought. This plant was the second commercial installation, the first being on the steamship Columbia in early 1880 with the 1879 life of dynamos on wooden bases.

This second installation was made in Jany., 1881, according to a letter, a year latter, from H. K. & lo. to the Edison Electric Light lo. See: Fourth Bulletin of the Edison lo., March 8,1882, Therefore, the dynamic must have been of the "A" lifte, substantially of the 1879 type, but with the field magnets on a zinc casting on a cast- from base instead of the 1879 wooden base. As you know, quite a number of the "A" type were made in later 1880, especially for Edison's lest central station at Menlo Park, on public extinution at Christmas time, 1880— and my economy test on the system was made in January, 1881, See "Edisonia".

I well remember the occasion, or excitement, at Menlo Park, when the preparation was being made for the H.K. & Co, installation. Well, we pulled up ptakes at Menlo Park in early February, 1881, and moved to 65 Fifth A venue, New York City. The Edison Machine Works, Goerck Street, were empty buildings, to be equipped before the making of "Z" dynamorould be begun a slight capacity enlargement of the "A" type figured out by me, and in those early days luckily just right. So H. K. & Co. must first have had an "A" dynamo,

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One "A" dynamo must have constituted the original H. K. & Co. original plant. But it was enlarged; for in the 18th Bulletin of the Edison Go, in a statement of Edison I polated Plants in operation, May 31, 1883, "The H. K. & Co. hod 240 lamps installed, What there were the types of dynamos, I do not know."

In "History of the Incandescent Lamp", 1927, by,
Howell and Schroeder, page 63, is an illustration,
from a photograph, of what purposts to be apparently
the original H.K. & Co. installation, But to me
the dynamo is nather a "2" than an "A" I Note
that the driving engine is of the vertical type,
Perhaps, when the plant was enlarged, dynamos
were shifted about and the "A" may have been
discarded, for it was inferior to the "2" type. You
may wish to fellow this matter up, pay, with the
United States National Museum, as to when the
photo was taken and other information they may
have concerning the installation,

Without doubt the early original plant must have caused interest, and have been news-food for New York newspapers and some technical yournal. Search partialarly The Sun for first part of 1881, and Scientific American, American Machinist, etc. I borget whether there was an electrical paper so early. You may thus find description of the driving engine, aynamo, etc., Try it.

mation wanted,

Many thanks for your Kind remembrance for my 84th birthday - "It is pleasant to be remembered" I am in good condition for my years; but, of course, cannot "run around the block" so fast as I used to, Trusting that all goes well with you,

Kindly yours,

Chas. L Clarke